

COC 170

11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
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9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132  
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(509) 924-9200 924-9290  
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## CHAIN OF CUSTODY REPORT

Work Order #: **M107036**

CLIENT: <b>Bristol</b>		INVOICE TO: <b>Bristol</b>										<b>TURNAROUND REQUEST in Business Days*</b> Organic & Inorganic Analyses <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">10</div> <div style="border: 1px solid black; padding: 2px;">7</div> <div style="border: 1px solid black; padding: 2px;">5</div> <div style="border: 1px solid black; padding: 2px;">4</div> <div style="border: 1px solid black; padding: 2px;">3</div> <div style="border: 1px solid black; padding: 2px;">2</div> <div style="border: 1px solid black; padding: 2px;">1</div> <div style="border: 1px solid black; padding: 2px;">&lt;1</div> </div> STD. Petroleum Hydrocarbon Analyses <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">5</div> <div style="border: 1px solid black; padding: 2px;">4</div> <div style="border: 1px solid black; padding: 2px;">3</div> <div style="border: 1px solid black; padding: 2px;">2</div> <div style="border: 1px solid black; padding: 2px;">1</div> <div style="border: 1px solid black; padding: 2px;">&lt;1</div> </div> STD. <span style="border: 1px solid black; padding: 2px;">OTHER</span> Please Specify					
REPORT TO: <b>Anne Kuana we Hwa</b>		P.O. NUMBER: <b>21090</b>															
ADDRESS: <b>Amchitka, Island, Ak</b>																	
PHONE: <b>907 770-0974</b> FAX: <b>770-0975</b>																	
PROJECT NAME: <b>Amchitka</b>		REQUESTED ANALYSES															
PROJECT NUMBER: <b>21090</b>																	
SAMPLED BY: <b>um</b>																	
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	PCBS	TSS BOD	Metals	Federal Coliform BAC	PA & DO								MATRIX (W, S, O)	# OF CONT.	COMMENTS	NCA WO ID
1. <b>OIAWTE09SW</b>	<b>7/15/01 0940</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>								<b>W</b>	<b>7</b>	<b>Field Test</b>	
2.																<b>Ph=6.87 DO=9.26</b>	
3.																<b>Turb 1-2 nts</b>	
4.																	
5.																<b>Totalizer=</b>	
6.																<b>1.187400</b>	
7.																	
8.																	
9.																	
10.																	
11.																	
12.																	
13.																	
14.																	
15.																	

RELINQUISHED BY: <b>Charlie Marshall</b>		DATE: <b>7/15/01</b>		RECEIVED BY: <b>Steph Wal</b>		DATE: <b>7/15/01</b>	
PRINT NAME: <b>Charlie Marshall</b>		TIME: <b>1010</b>		PRINT NAME:		TIME: <b>1010</b>	
FIRM: <b>Bristol</b>				FIRM: <b>NCA</b>			
RELINQUISHED BY:		DATE:		RECEIVED BY:		DATE:	
PRINT NAME:		TIME:		PRINT NAME:		TIME:	
FIRM:				FIRM:			

ADDITIONAL REMARKS:  
  
 COC REV 3/99

TEMP:

PAGE OF



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541.383.9310 fax 541.382.7588

7 December, 2001

Anne Kranawetter  
Bristol Environmental & Engineering  
2000 W International Airport C#1  
Anchorage, AK 99502-1116

RE: Amchitka

Enclosed are the results of analyses for samples received by the laboratory on 07/15/01 10:10. If you have any questions concerning this report, please feel free to contact me.

This report was recreated from a previously issued final report in order to provide an electronic copy. The final report used for these electronic copies may have been previously issued as an amended report due to client requested changes to sample names, etc. No data has changed since submission of the previously issued final, or amended, report.

Sincerely,

Stephen Wilson  
Environmental Group Leader

Work Orders included in this report:

**M107036**



**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-9223  
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Bristol Environmental & Engineering  
2000 W International Airport C#1  
Anchorage, AK 99502-1116

Project: Amchitka  
Project Number: 21090  
Project Manager: Anne Kranawetter

**Reported:**  
07/22/01 08:01

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01AMTE09SW	M107036-01	Water	07/15/01 09:40	07/15/01 10:10

COC #170

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

**North Creek Analytical, Inc.**  
**Environmental Laboratory Network**

1 of 11



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Project: Amchitka  
Project Number: 21090  
Project Manager: Anne Kranawetter

**Reported:**  
07/22/01 08:01

## Polychlorinated Biphenyls per EPA Method 8082

### North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMTE09SW (M107036-01) Water</b>						Sampled: 07/15/01 Received: 07/15/01			
Aroclor 1016	ND	0.200	ug/l	1	EPA 8082	07/15/01	07/15/01	0107058	
Aroclor 1221	ND	0.400	"	"	"	"	"	"	
Aroclor 1232	ND	0.200	"	"	"	"	"	"	
Aroclor 1242	ND	0.200	"	"	"	"	"	"	
Aroclor 1248	ND	0.200	"	"	"	"	"	"	
Aroclor 1254	ND	0.200	"	"	"	"	"	"	
Aroclor 1260	ND	0.200	"	"	"	"	"	"	
Surr: 2,4,5,6-Tetrachloro-m-xylene	69.5 %	44-119							
Surr: Decachlorobiphenyl	75.0 %	54-128							

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Project: Amchitka  
Project Number: 21090  
Project Manager: Anne Kranawetter

**Reported:**  
07/22/01 08:01

**Total Metals per EPA 6000/7000 Series Methods**  
**North Creek Analytical - Mobile Lab**

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
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**01AMTE09SW (M107036-01) Water**

Sampled: 07/15/01 Received: 07/15/01

Arsenic	ND	0.00500	mg/l	1	EPA 6020	07/15/01	07/17/01	0107057	
Cadmium	ND	0.00200	"	"	"	"	"	"	
Chromium	ND	0.00500	"	"	"	"	"	"	
Lead	ND	0.00500	"	"	"	"	"	"	
Selenium	ND	0.00500	"	"	"	"	"	"	
Silver	ND	0.00200	"	"	"	"	"	"	
Mercury	ND	0.0000100	"	"	EPA 1631	07/20/01	07/21/01	0107075	

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Anchorage, AK 99502-1116

Project: Amchitka  
Project Number: 21090  
Project Manager: Anne Kranawetter

**Reported:**  
07/22/01 08:01

**Conventional Chemistry Parameters per APHA/EPA Methods**  
**North Creek Analytical - Mobile Lab**

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMTE09SW (M107036-01) Water</b>					Sampled: 07/15/01 Received: 07/15/01				
Biochemical Oxygen Demand	ND	4.00	mg/l	1	EPA 405.1	07/15/01	07/20/01	0107060	Q-12
<b>Dissolved Oxygen</b>	<b>7.42</b>	1.00	"	"	EPA 360.1	07/15/01	07/15/01	0107059	
<b>pH</b>	<b>6.70</b>	0.100	pH Units	"	EPA 150.1	"	"	"	
Total Suspended Solids	ND	10.0	mg/l	"	EPA 160.2	07/15/01	07/15/01	0107061	

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Project: Amchitka  
Project Number: 21090  
Project Manager: Anne Kranawetter

**Reported:**  
07/22/01 08:01

**Microbiological Parameters per APHA Standard Methods**  
**North Creek Analytical - Mobile Lab**

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMTE09SW (M107036-01) Water</b>					Sampled: 07/15/01 Received: 07/15/01				
E. Coli	ND	2.00MPN/100 ml	1		SM 9221	07/15/01	07/17/01	0107062	
<b>Total Coliforms</b>	<b>2420</b>	2.00	"	"	"	"	"	"	B-14

North Creek Analytical - Mobile Lab

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Project Number: 21090  
Project Manager: Anne Kranawetter

**Reported:**  
07/22/01 08:01

### Polychlorinated Biphenyls per EPA Method 8082 - Quality Control

#### North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 0107058 - 3520B Liq-Liq

##### Blank (0107058-BLK1)

Prepared & Analyzed: 07/15/01

Aroclor 1016	ND	0.200	ug/l
Aroclor 1221	ND	0.400	"
Aroclor 1232	ND	0.200	"
Aroclor 1242	ND	0.200	"
Aroclor 1248	ND	0.200	"
Aroclor 1254	ND	0.200	"
Aroclor 1260	ND	0.200	"

Surr: 2,4,5,6-Tetrachloro-m-xylene	0.128	"	0.200	64.0	44-119
Surr: Decachlorobiphenyl	0.162	"	0.200	81.0	54-128

##### LCS (0107058-BS1)

Prepared & Analyzed: 07/15/01

Aroclor 1254	0.735	0.200	ug/l	1.00	73.5	47-155
<i>Surr: 2,4,5,6-Tetrachloro-m-xylene</i>	<i>0.129</i>		<i>"</i>	<i>0.200</i>	<i>64.5</i>	<i>44-119</i>
<i>Surr: Decachlorobiphenyl</i>	<i>0.191</i>		<i>"</i>	<i>0.200</i>	<i>95.5</i>	<i>54-128</i>

##### LCS Dup (0107058-BSD1)

Prepared & Analyzed: 07/15/01

Aroclor 1254	0.927	0.200	ug/l	1.00	92.7	47-155	23.1	50
Surr: 2,4,5,6-Tetrachloro-m-xylene	0.149		"	0.200	74.5	44-119		
Surr: Decachlorobiphenyl	0.189		"	0.200	94.5	54-128		

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Bristol Environmental & Engineering  
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Anchorage, AK 99502-1116

Project: Amchitka  
Project Number: 21090  
Project Manager: Anne Kranawetter

**Reported:**  
07/22/01 08:01

### Total Metals per EPA 6000/7000 Series Methods - Quality Control

#### North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 0107057 - EPA 200/3005

##### Blank (0107057-BLK1)

Prepared: 07/15/01 Analyzed: 07/17/01

Arsenic	ND	0.00500	mg/l
Cadmium	ND	0.00200	"
Chromium	ND	0.00500	"
Lead	ND	0.00500	"
Selenium	ND	0.00500	"
Silver	ND	0.00200	"

##### LCS (0107057-BS1)

Prepared: 07/15/01 Analyzed: 07/17/01

Arsenic	0.0828	0.00500	mg/l	0.100	82.8	80-120
Cadmium	0.0844	0.00200	"	0.100	84.4	80-120
Chromium	0.0893	0.00500	"	0.100	89.3	80-120
Lead	0.100	0.00500	"	0.100	100	80-120
Selenium	0.0837	0.00500	"	0.100	83.7	75-115
Silver	0.0931	0.00200	"	0.100	93.1	80-120

##### Duplicate (0107057-DUP1)

Source: M107036-01

Prepared: 07/15/01 Analyzed: 07/17/01

Arsenic	ND	0.00500	mg/l	ND	0.418	20	Q-06
Cadmium	ND	0.00200	"	ND		20	
Chromium	ND	0.00500	"	ND	34.0	20	
Lead	ND	0.00500	"	ND	3.36	20	
Selenium	ND	0.00500	"	ND	3.97	20	
Silver	ND	0.00200	"	ND	17.1	20	

##### Matrix Spike (0107057-MS1)

Source: M107036-01

Prepared: 07/15/01 Analyzed: 07/17/01

Arsenic	0.0933	0.00500	mg/l	0.100	ND	90.9	75-125
Cadmium	0.0843	0.00200	"	0.100	ND	84.3	75-125
Chromium	0.0891	0.00500	"	0.100	ND	88.7	75-125
Lead	0.0986	0.00500	"	0.100	ND	97.4	75-125
Selenium	0.0923	0.00500	"	0.100	ND	90.6	75-125
Silver	0.0876	0.00200	"	0.100	ND	87.4	75-125

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Project: Amchitka  
Project Number: 21090  
Project Manager: Anne Kranawetter

**Reported:**  
07/22/01 08:01

### Total Metals per EPA 6000/7000 Series Methods - Quality Control

#### North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 0107075 - EPA 1631

##### Blank (0107075-BLK1)

Prepared: 07/20/01 Analyzed: 07/21/01

Mercury	ND	0.0000100	mg/l
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##### LCS (0107075-BS1)

Prepared: 07/20/01 Analyzed: 07/21/01

Mercury	0.000118	0.0000100	mg/l	0.000125	94.4	85-115
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##### Duplicate (0107075-DUP1)

Source: M107036-01

Prepared: 07/20/01 Analyzed: 07/21/01

Mercury	ND	0.0000100	mg/l	ND		20
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##### Matrix Spike (0107075-MS1)

Source: M107036-01

Prepared: 07/20/01 Analyzed: 07/21/01

Mercury	0.0000987	0.0000100	mg/l	0.000125	ND	79.0	75-125
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North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Project: Amchitka  
Project Number: 21090  
Project Manager: Anne Kranawetter

**Reported:**  
07/22/01 08:01

### Conventional Chemistry Parameters per APHA/EPA Methods - Quality Control

#### North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 0107059 - Wet Chem

##### Duplicate (0107059-DUP1)

Source: M107036-01

Prepared & Analyzed: 07/15/01

pH	6.80	0.100	pH Units	6.70			1.48	200	
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#### Batch 0107060 - Wet Chem

##### Blank (0107060-BLK1)

Prepared: 07/15/01 Analyzed: 07/20/01

Biochemical Oxygen Demand	ND	4.00	mg/l						
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##### LCS (0107060-BS1)

Prepared: 07/15/01 Analyzed: 07/20/01

Biochemical Oxygen Demand	190	4.00	mg/l	198	96.0	75-125			
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##### Duplicate (0107060-DUP1)

Source: M107036-01

Prepared: 07/15/01 Analyzed: 07/20/01

Biochemical Oxygen Demand	ND	4.00	mg/l	ND			40		Q-12
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#### Batch 0107061 - Wet Chem

##### Blank (0107061-BLK1)

Prepared & Analyzed: 07/15/01

Total Suspended Solids	ND	10.0	mg/l						
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##### LCS (0107061-BS1)

Prepared & Analyzed: 07/15/01

Total Suspended Solids	122	10.0	mg/l	120	102	80-120			
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##### Duplicate (0107061-DUP1)

Source: M107036-01

Prepared & Analyzed: 07/15/01

Total Suspended Solids	ND	10.0	mg/l	ND			20		
------------------------	----	------	------	----	--	--	----	--	--

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

North Creek Analytical, Inc.  
Environmental Laboratory Network



**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-9223  
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**Spokane** East 11115 Montgomery, Suite B, Spokane, WA 99206-4776  
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Bristol Environmental & Engineering  
2000 W International Airport C#1  
Anchorage, AK 99502-1116

Project: Amchitka  
Project Number: 21090  
Project Manager: Anne Kranawetter

**Reported:**  
07/22/01 08:01

### Microbiological Parameters per APHA Standard Methods - Quality Control

#### North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 0107062 - Wet Chem

##### Blank (0107062-BLK1)

Prepared: 07/15/01 Analyzed: 07/17/01

E. Coli	ND	2.00	MPN/100 ml
Total Coliforms	ND	2.00	"

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### Notes and Definitions

B-14 Result is greater than (>) stated value.  
Q-06 Analyses are not controlled on RPD values from sample concentrations less than 5 times the reporting limit.  
Q-12 None of the sample dilutions selected met the criteria of at least 2 mg/l dissolved oxygen depletion.  
DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis. MRLs are adjusted if %Solids are less than 50%.  
wet Sample results reported on a wet weight basis (as received)  
RPD Relative Percent Difference

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### Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			Report recreated from: \\sisters\elmnt\Report\M107036 FINAL 07 22 01 0801.mdb Default Report (not modified)
0107057-DUP1	Cr Total ICPMS 6020	Chromium	Q-06
0107057-DUP1	Cr Total ICPMS 6020	Chromium	Exceeds RPD limit
0107060-DUP1	BOD-405.1	Biochemical Oxygen Demand	Q-12
M107036-01	BOD-405.1	Biochemical Oxygen Demand	Q-12
M107036-01	TC MPN-SM9221	Total Coliforms	B-14